

User's Manual for QS5800 Operations



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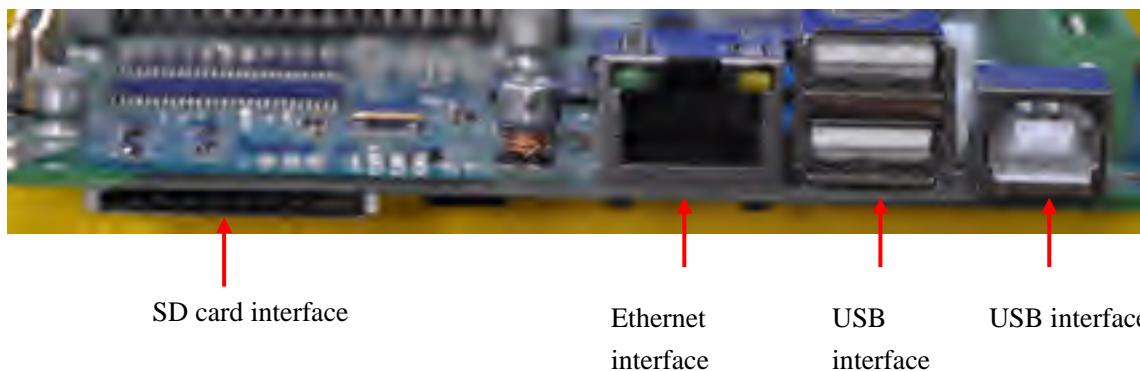
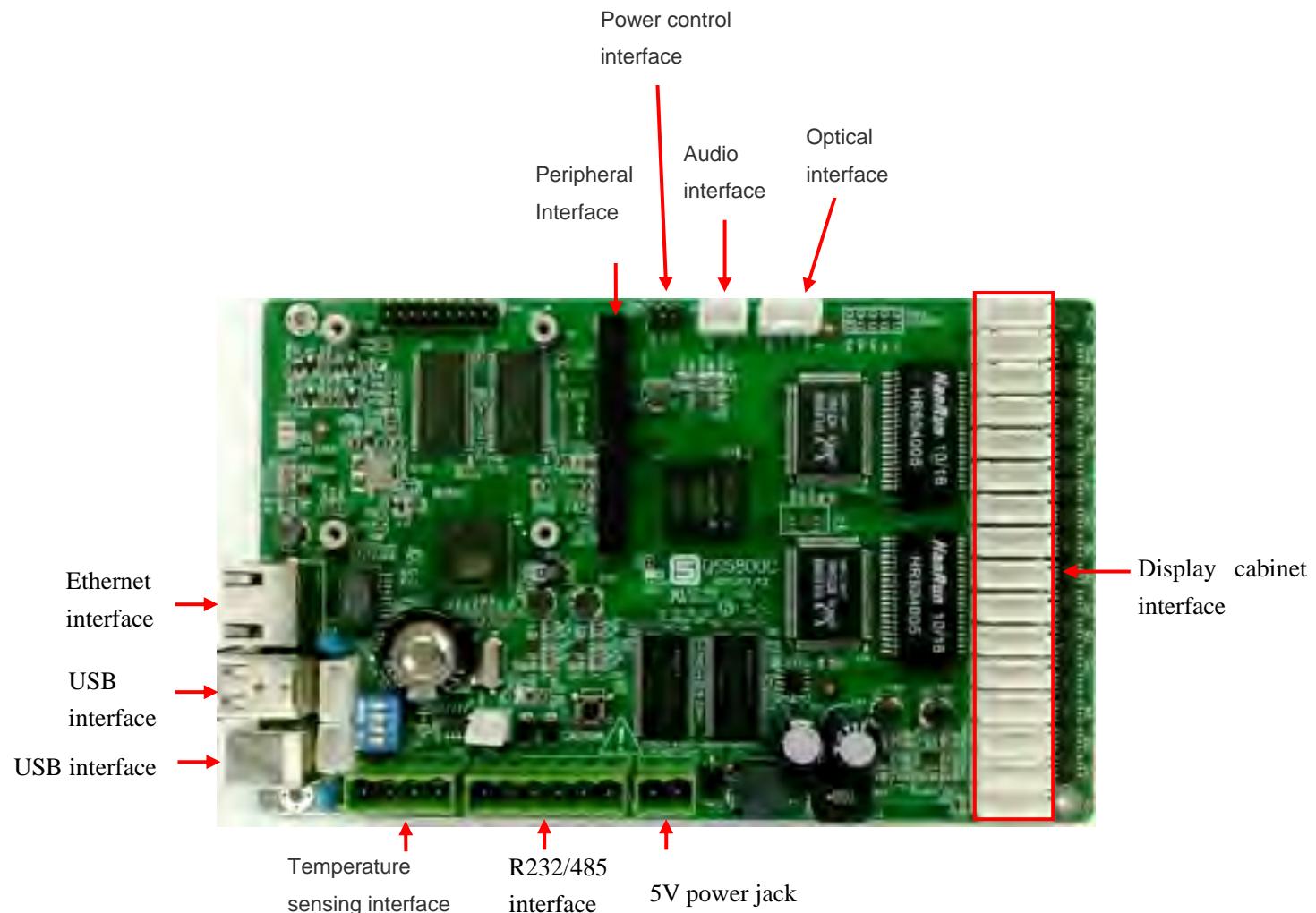
version	modifications	modifier	Modification date
Ver1.0	Compile the first version	ZWJ	2011-1-7
Ver1.1	Modify the imperfect process	ZWJ	2011-1-10
Ver1.2	Modify part of the format	YangLei	2011-1-17
Ver1.3	Modify part of the format	ZWJ	2011-1-17
Ver1.4	Modify part of the format	ZWJ	2011-1-24
Ver1.5	Modify hardware connection parts	ZWJ	2011-2-13
Ver1.6	Resetting	ZWJ	2011-2-14
Ver1.7	Content modification	ZWJ	2011-2-15
Ver1.8	Add SIGMA's upgrading and content modification of the WEB 1.5	ZWJ	2011-4-15
Ver1.9	Update the upgraded content in the upgrade packs	ZWJ	2011-5-16

1. Brief Introduction

QS5800 is a new generation of LED display main control system. Its features are as follows.

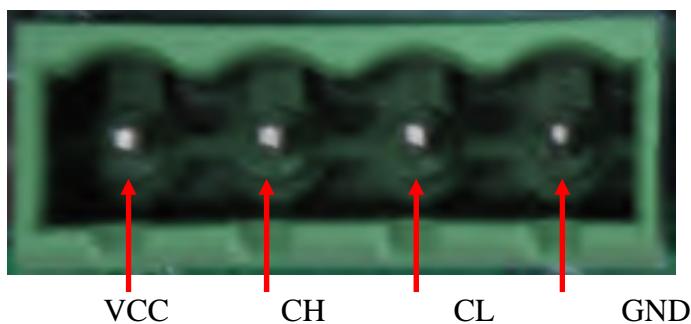
- Support offline and synchronous application.
- Support various synchronous signal input such as LVDS, DVI, GbE([gigabit Ethernet](#)) and optical fiber.
- Can play the file in the USB flash disk and SD card directly.
- Support the document of JPEG, MPEG, AVI and so on.
- With the display and control mode, rights management classification as well as the display statistical functions which specific to the advertising.
- The brightness of the display can be adjusted automatically so that the energy consumption of the display can be reduced significantly.
- Support timer switch function.
- Support the RSS function, reading the RSS Feed in real time and update the displayed content.
- Support the function of detecting and display the temperature and humidity in real time.
- Support the forms of communication such as WIFI, GPRS, USB, RS232, RS485.
- Support the function of reporting the working state of the display by sending SMS and E-mail.
- Support to set and operate by browser.

2. Interface Specification

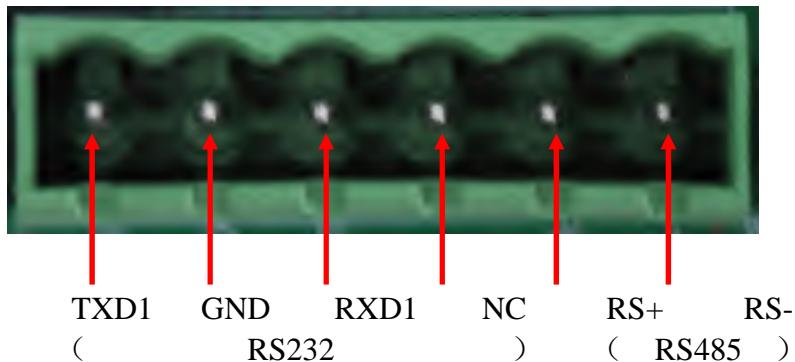


2.1 Introduction of the interface

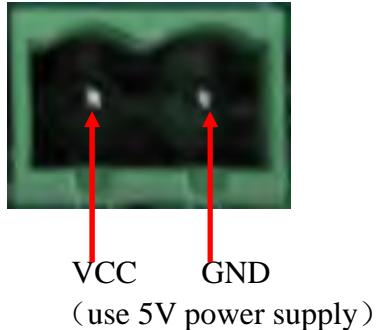
2.1.1. Temperature sensing interface



2.1.2. RS232/RS485 interface

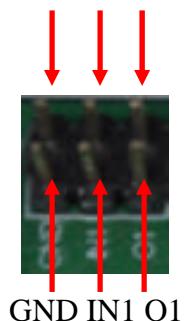


2.1.3. power jack

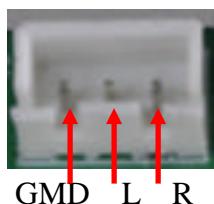


2.1.4. Interface of External power supply controller

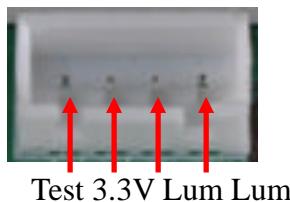
NC IN2 O2



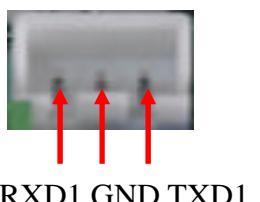
2.1.5 Audio Interface



2.1.6 Optical interface



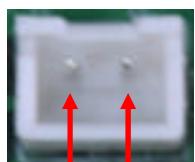
2.1.7 RS232 Serial Port



2.1.8 USB Serial Port



2.1.9 FAN Interface



3. Specification

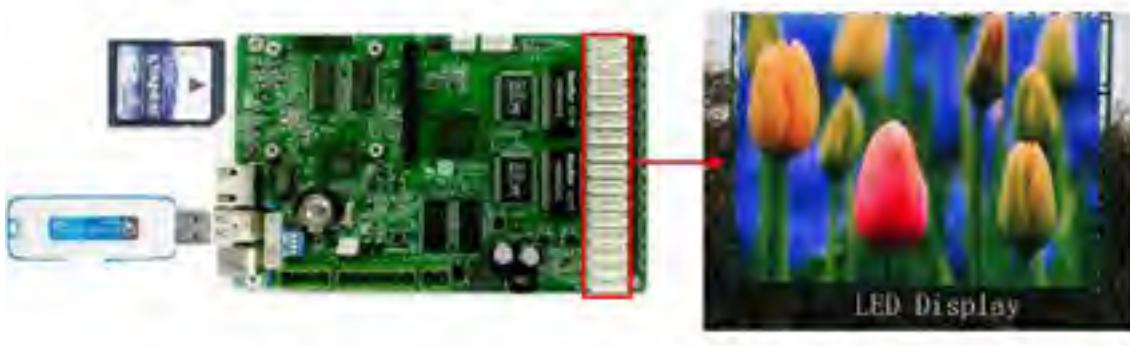
Specification of the QS5800

CPU Type	ARM9
Run Speed	400MHz
Memory	64MB SDRAM + 128MB DDR SDRAM
Storage	256MB NAND Flash on board, Supports SD Card and U Disk.
Operating System	Linux 2.6
Interface	One RS232 One RS485 One 10M/100M Ethernet Two USB host One USB device One SD Card Socket
Communication	RS232 RS485 10M/100M Ethernet USB GPRS WLAN
Working Mode	Offline or synchronous with computer
Input resolution	1024x768@60Hz
Output resolution	1024x768@60Hz
Video format supported	Mpeg2,avi,mp4
Operating temperature	-10~60°C
Dimensions	180mmx120mmx20mm

4. Typical Applications

4.1 Offline Application

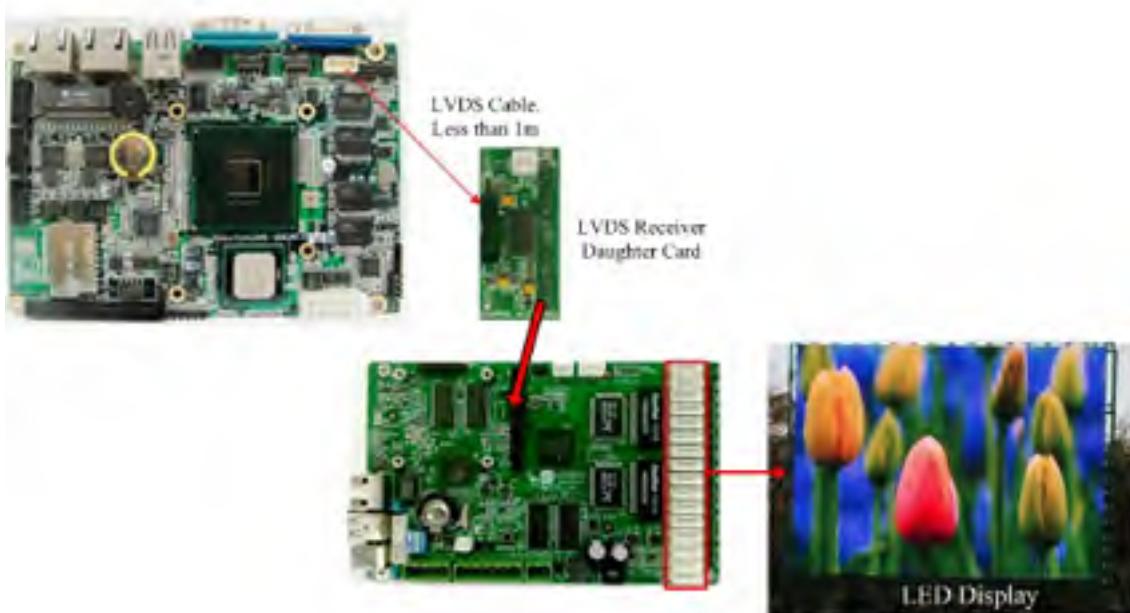
In this application, QS5800 runs independently and plays the file that saved in the on-board storage, SD card or U disk automatically according to the setup.



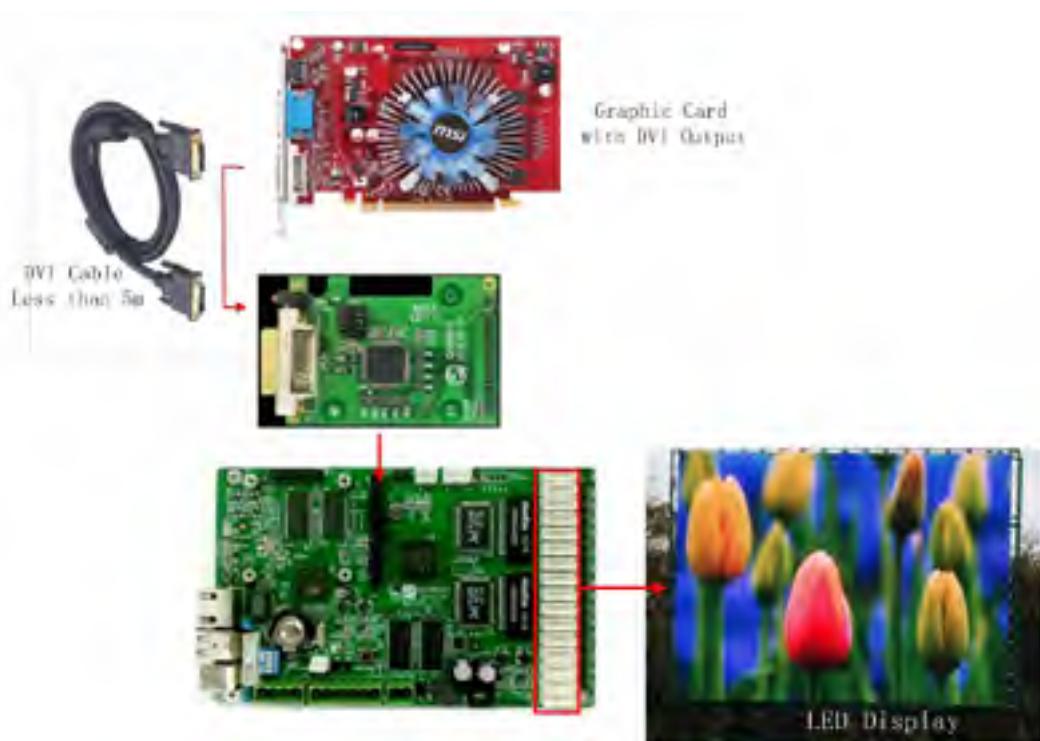
4.2 Synchronous Application

In the synchronous application, QS5800 needs devices like computer, DVD player, video camera to offer the display contents. Following is the introduction of 5 frequently-used synchronous systems.

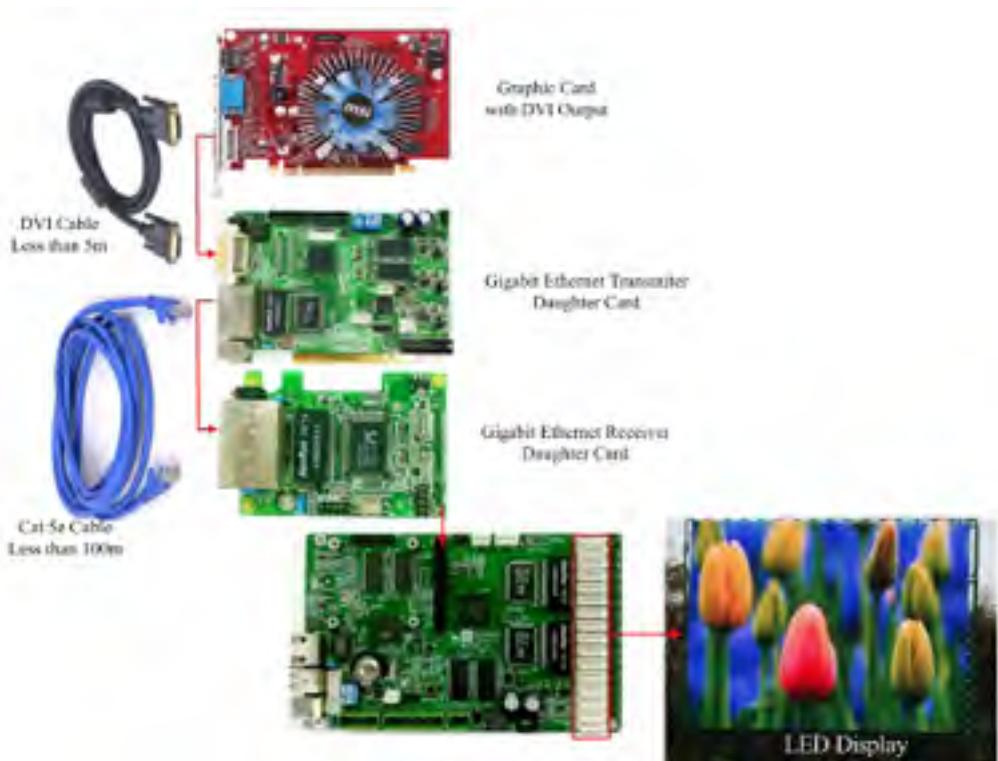
4.2.1 To be Synchronic with Single-board Computer via LVDS Connector



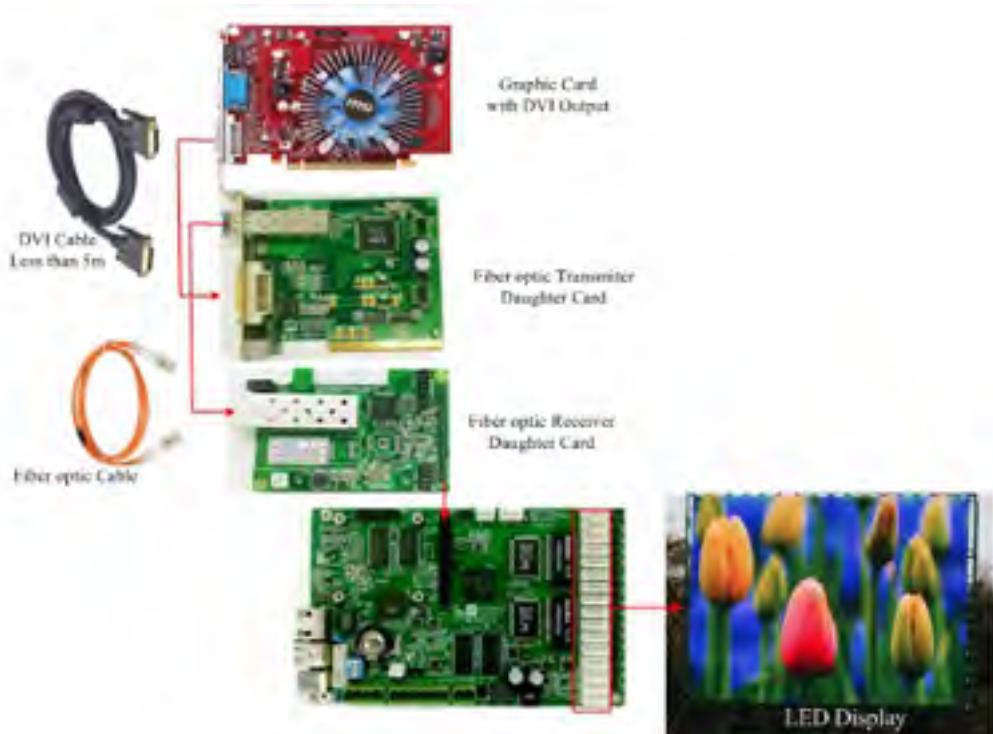
4.2.2 To be synchronic with Computer via DVI Connector



4.2.3 To be synchronic with Gigabit Ethernet Interface



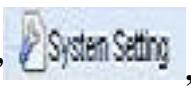
4.2.4 To be synchronic with Optical Fiber



5. Motherboard Configuration

5.1 connect the motherboard with internet, and input the IP address into the browser and login to the motherboard



5.2 after logging in, click “system setting”  , enter into the control interface,

Basic		Communication	
Name:	7000	Port Address:	49.72.4.10.40
Width:	128	Second Port:	200.200.0.0
Height:	40	Gateway:	199.22.4.11.1.1
Style:	-	Port Rate1:	102400
Hardware Version:	-	Unit Select:	115500
Module Name:	-	Group Address:	1
Software:	1	Unit Addr:	
PIRA		Others	
H.264 video:	800x400x30	Play Mode:	Play by displaying
IR/RS485 Mode:	C_LIN	Language:	English
RS485 Mode:	RS485 Serial	Time Format:	MM-DD-YYYY
Signal Indicator:	Left To Right	Volume:	Mute
Drive Type:	2:64x40 (2x2)	EMC:	100.95.120.100
Color Temperature		Sync Time:	2017-03-02 11:10:28
:	200		
:	200		
:	200		

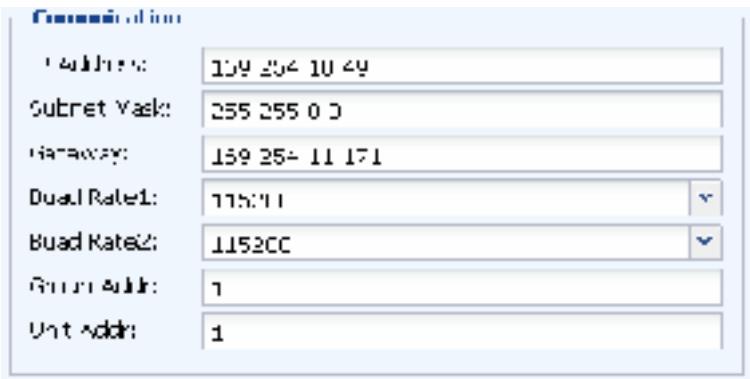
notice:

List of common features

Name of the function	Specific function	Name of the function	Specific function
Name	Name of the display	IP	The IP address of motherboard
Width	Width of the display	Baud Rate1	output frequency mostly used during the communication of some special module
Height	Height of the display	Baud Rate2	
Firmware	The program version of CPU	Group Addr	Group address. Used to distinguish one line or one row when multiple pieces module are combined together
Hardware Version	Reading of the type of hardware	Unit Addr	Unit address. Used to distinguish one module in one line or one row when multiple pieces modules are combined together
Style	Module type of the	Play Mode	When there are new

	display		playlists updating, choose to response immediately or to response after the original playlists finish playing
Drive Type	Connection mode of the display	Control Mode	Used in synchronized output, be set as “offline” generally.
Brightness	Adjusting brightness of the display		
Color Temperature	Adjusting the R, G, B color of the display effect		

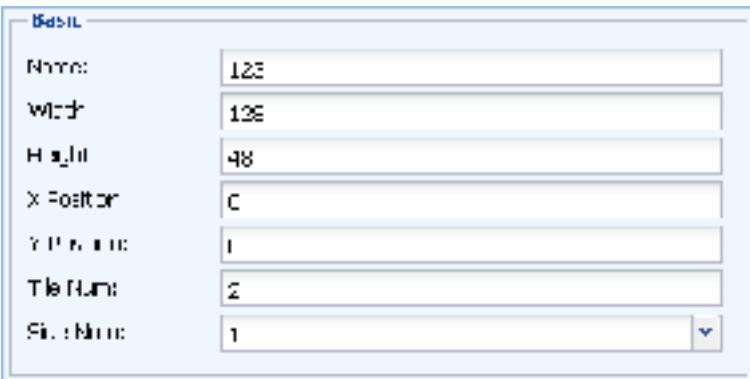
5.3 Modify the IP address of the motherboard in communication parameters, and use the communication frequency of the serial communication.



This screenshot shows a configuration window for communication parameters. The fields are as follows:

- IP Address: 109.254.10.49
- Subnet Mask: 255.255.0.0
- Gateway: 109.254.11.171
- Dual Rate1: 115.2K
- Dual Rate2: 115.2CC
- Serial Addrs: 1
- Unit addrs: 1

5.4 Modify the name, the width, the height and the quantity of the module of the display in the basic parameter.



This screenshot shows a configuration window for basic parameters. The fields are as follows:

- Name: 123
- Width: 128
- Height: 48
- X Position: C
- Y Position: 1
- Title Num: 2
- Str. Num: 1

5.5 Set the play mode as “offline” and the pixel mode as “real pixel” in the FPGA parameters, set the corresponding the signal direction and the type of the diver board as per the type of the display module.

FPGA

HDMI Style:	R-CD(0:0:0)
FPGA Model:	VGA
Play Mode:	Play Immediately
Signal Direction:	Left To Right
Drive Type:	2 : 2x4 : 0 (2x0)
Color Temperature	
R(%)	25%
G(%)	25%
B(%)	25%

5.6 Set the play mode as “Play Immediately” and the DNS as the IP address of the server in the other parameters, and set the time zone according to the actual geographic position.

Others

Play Mode:	Play Immediately
Charset:	ASCII
Time Zone:	GMT 03:01
Volume:	Mute
DNS:	202.90.128.100
Create Date:	2011/1/6 10:51:12

5.7 Click “ Send” to save.

6. Let the display enter into the test condition

6.1. Login in the WEB page of the motherboard, choose “play control”  (fig 21.1.1.1).

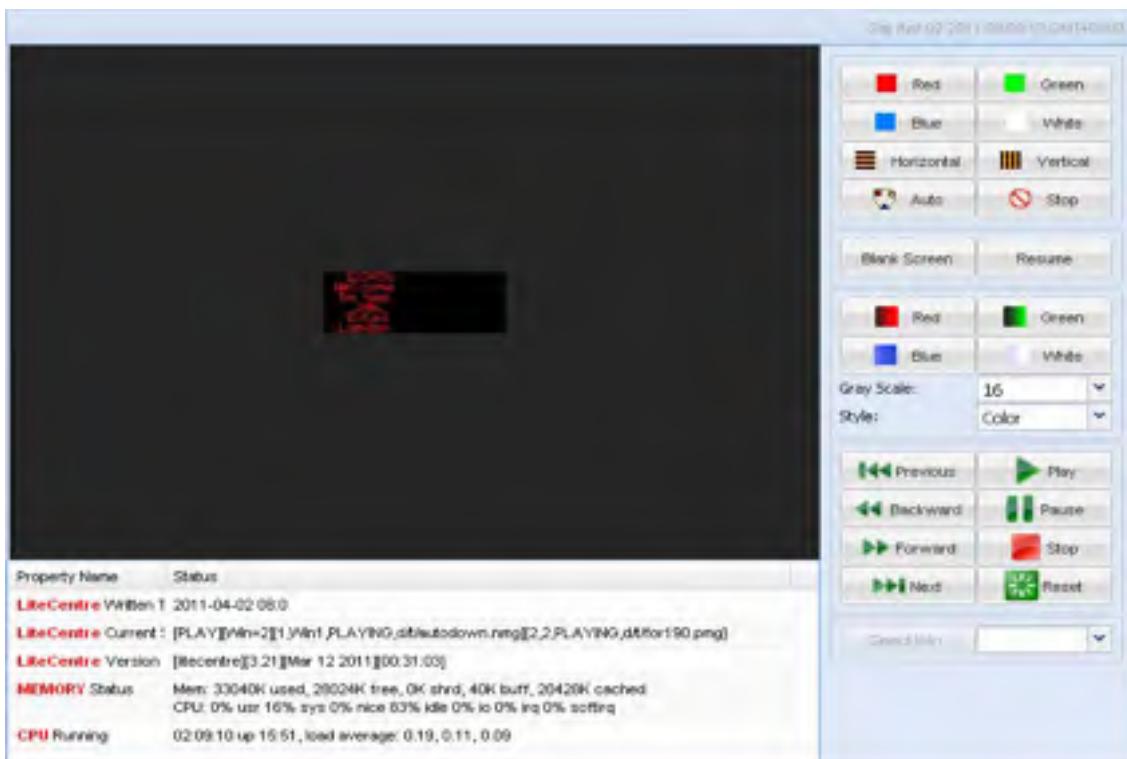


fig 21.1.1.1

2. Use the test button on the left side to check the display.(fig 21.1.2.1)

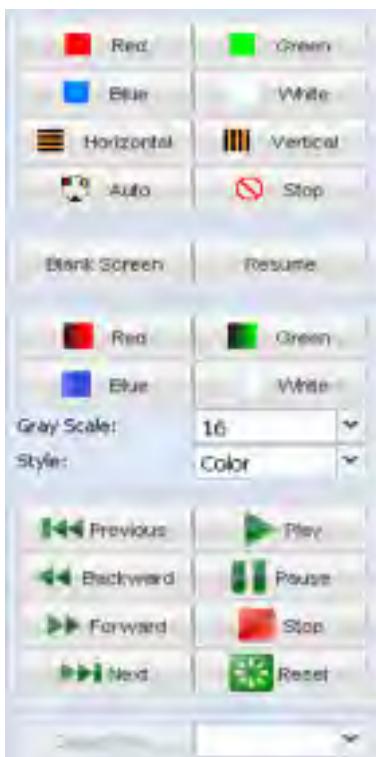


Fig 21.1.2.1

Test button	Display effect
Full red, full green, full blue, full white	display one color

horizontal sweep or Vertical sweep	some horizontal or vertical moving line will turn up in the display
automatic	Display alternates single color graphics and linear movement graphics.
stop	stop all the test function
Blank screen	Make the display become blank screen
Stop black screen	Restore original frames
red, green, blue, white	In the screen shows that the black gradually changes into red, green, blue or white.
Forward, backward	Playing files fast forward and backward
Previous, next	Play previous one or the next one directly
play	Start playing file
pause	Pause playing file
stop	Stop playing file
reset	Reset the motherboard

7 Send the created information to the display screen

When the user need to play the multimedia file(bmp、jpg、AVI、mpeg、flv etc.)for several times, please choose the PLAY function in the list. The user just need to get the play files (e.g. bmp、jpg、AVI、mpeg、flv. Please refer to the directions of the editing software when making the multimedia files) ready and then add to the playlists to play.

7.1 Transfer Disk(offline)

7.1.1. Please check whether the file layout is FAT or FAT32; if not, please reformat the USB flash disk.

7.1.2 Add list files and play files to the USB flash disk. (Note: the main board cannot distinguish the combination of memory card and USB flash disk of card reader.)

7.1.3 Open the playlist, delete the original content and add the following contents:

[VER10000]
 [OVERWRITE]
 [D]
 [REV]

[1][AD][helloworld.nmg][2011-01-01 00:00 2011-12-31 23:59 111111]

Note(the last line): [window][group name][place and name of the playlist][daily start date; daily end date; which day to play]

7.1.4 Then insert the USB flash disk to the connector of main board. After a while, the main board will start the playlist automatically. (Note: don't do other operation when waiting.)

7.2 Web

7.2.1 Choose “playlist>add from local”



7.2.2 Please add the edited file HELLOWORLD.nmg to the playlist (for detailed step, please refer to directions of SIGMA) (Note: the volume of the single file cannot surpass 20MB in the page state)
 7.2.3 Choose the play window and play attribute(picture1.2.2.1), click“enter>write

Send ” and finish to add(picture 1.2.2.2) .



Fig 1.2.2.1

Window	Company Name	File Name	Play Time(S)	Play Count	Preview	Status
<input checked="" type="checkbox"/> Company Name: QSTECH (1 Item)						
1	QSTECH	hello world.Nmg	0	1		add from local

fig 1.2.2.2

7.3 Play the content in the SD card or USB flash disk

7.3.1 Insert the memory card or USB flash disk to the card reader of the main board or the connector of USB. Restart the main board when insert or pull out the memory card.



7.3.2 Choose “playlist” in the WEB page, click” ”and add the files needed to be played to the display screen.

7.3.3 In the pop-up dialog box, the USB flash disk will open USB DISK content(fig 3.3.3.1), SD will open SD DISK content (fig 3.3.3.1).



fig 3.3.3.1

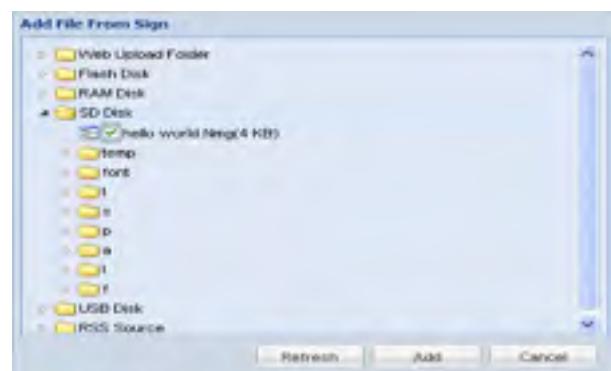


fig 3.3.3.2

7.3.4 Choose the files needed to be added, click 

Add

,and at last click 



Send

8 Setting display scheduling

8.1 Log in the page of main board with the IP address and choose 



8.2 Add a file to the display screen (e.g. HELLO world.nmrg, fig 7.5.1.1)

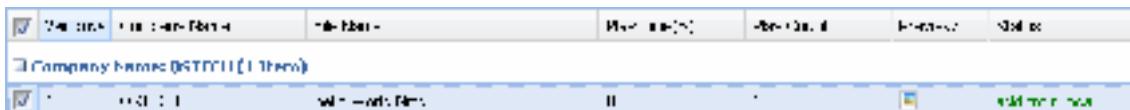


Fig 7.5.1.1

8.3 After choosing the playlist, click  in the pop-up dialog box, set the date, play time and which day to play in a week. (fig4.2.2.2)

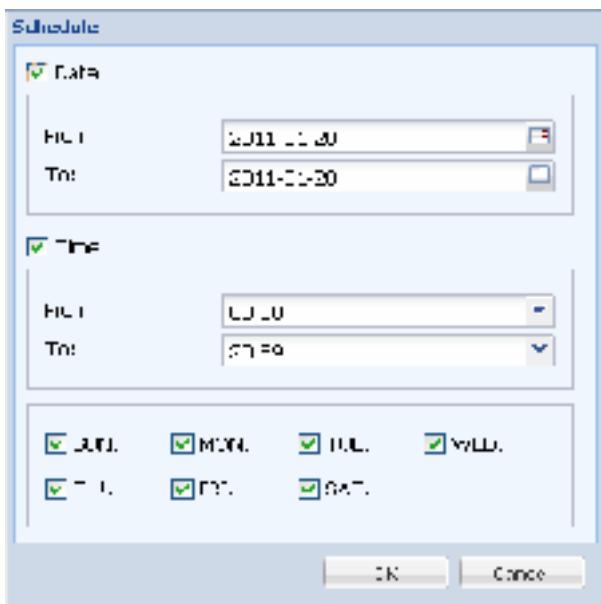


fig 7.5.2.1

8.4 After the setting((fig 7.5.3.1) , click 



and then click 

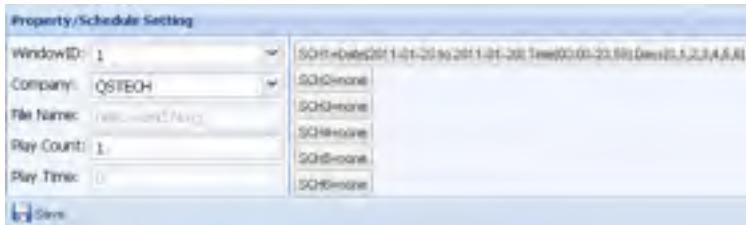


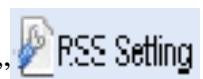
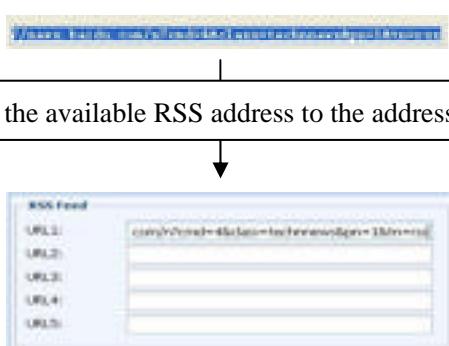
fig 7.5.3.7

8.5 At last, click  to send to the display screen.

9 Let the display with RSS function

Rss function can make the motherboard update the news automatically and the play list does not need modifying. Users can update the news by this function to save a lot of time and effort.

9.1 Use the IP address to login in the motherboard page, choose “RSS Setting”

Copy the available RSS address to the address frame

9.2, Copy the available RSS address (such as: <http://news.baidu.com/n?cmd=4&class=technews&pn=1&tn=rss> notice: the website must be with RSS) to the “URL address frame” in the RSS FEED. (picture 5.1.2.1)

Fig 5.1.2.1



Item Name	Value
Item 1:	title
Item 2:	description
Item 3:	
Item 4:	title
Item 5:	description pubDate author

9.3 modify the item property in the item name, set the playing content of the RSS. For example, title description, put date and so on. (picture 5.1.3.1)

Fig 5.1.3.1



Fig 5.1.4.1

9.4 choose the playing effect of the RSS in the display style, such as font style, display mode, color and the pause time of each message.
(picture 5.1.4.1)



Fig 5.1.5.1

9.5 open the RSS function in the control, set the quantity of the message you want to play, the updating interval and the charset, “GBK” are generally used in Chinese.(Picture 5.1.5.1)

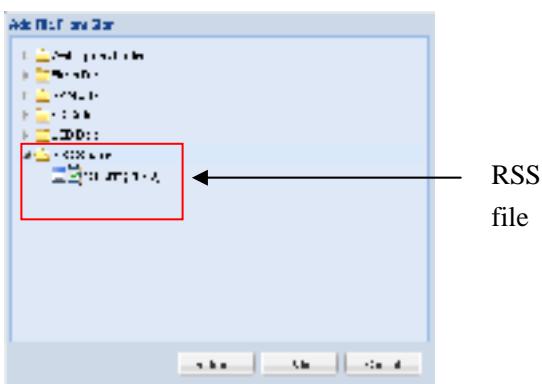


Fig 5.1.6.1

9.6 choose “play list” 

click “ From Sign” , open RSS Source to choose RSS1.nmg file (picture 5.1.6.1), click “ Send” to save.

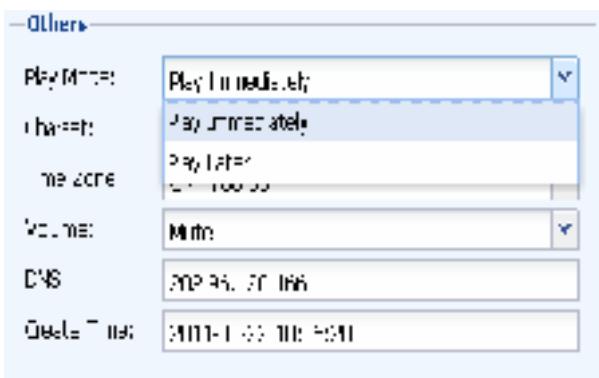


fig 5.1.7.1

Notice: if it still cannot be played after modifying, please check “system setting” to make sure whether the “play mode” is set as “play immediately” or not. (.fig 5.1.7.1)

10. Equip the display with the function of updating display content automatically

10.1 Set up Sharing Server

11.1.1 Set up FTP content on the server (Fig. 6.1.1.1) and set up user name and password for downloading (For example, the content of the FTP server is `ftp://169.254.10.49/down`, both user name and password are 5800).



Fig. 6.1.1.1

10.1.2 In the “DOWN” content of the server, 5 folders are added (Fig. 6.1.2.1). They are Downlist, Picture, Text, Video, Log. Relevant file in the folder can be added.



Fig. 6.1.2.1

Note: in the DOWNLIST folder, the public list (common xml) and private xml (*.xml, “*”should be accord with the screen name, Fig. 6.1.2.2) must be separated when adding download listfiles.



Fig. 6.1.2.2

10.1.3 Use text editor to open common.xml and *.xml. Eliminate the content of the original file and then add the content as follows (refer to the auto download text for specific information).

```

<?xml version="1.0" encoding="utf-8"?>
<FileList>
  <TextList>
    <Text>
      <WinID>1</WinID>           ——window ID
      <Group>Pledco</Group>       ——company name
    </Text>
  </TextList>
</FileList>

```

<FileNo>3</FileNo>	—— folder number
<Name>autodown.nmg</Name>	—— download file name
<ReplayTimes>1</ReplayTimes>	—— number of times of replay
<TimeNum>1</TimeNum>	—— to change the default play time setting“0”to be“1”
<Times>	
<Week>127</Week>	—— play in some day of a week
<StartTime>	—— start time
<Year>2011</Year>	—— year
<Month>01</Month>	—— month
<Day>01</Day>	—— day
<Hour>00</Hour>	—— hour
<Minute>00</Minute>	—— minute
</StartTime>	
<EndTime>	—— end time
<Year>2011</Year>	—— year
<Month>12</Month>	—— month
<Day>31</Day>	—— day
<Hour>23</Hour>	—— hour
<Minute>00</Minute>	—— minute
</EndTime>	
</Times>	
</Text>	
</TextList>	
</FileList>	

10.2 Allocate Motherboard

10.2.1 Choose  in the WEB page, then click .

10.2.2 Set up the IP address, subnet mask, default router, DNS of the motherboard. To make the motherboard and server in the same LAN so as to avoid connect failure (Fig6.2.2.1).

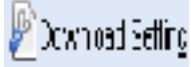
Communication

IP Address:	169.254.10.49
Subnet Mask:	255.255.0.0
Gateway:	169.254.11.171
Port Rule 1:	115200
Dial Rate:	115200
Group Addr:	1
Unit Addr:	1

Others

Play Mode:	Play Immediately
Charset:	ASCII
Time Zone:	GMT+08:00
Volume:	Mute
END:	000.00.128.1ff
Create time:	2011-09-22 10:06:20

Fig.6.2.2.1

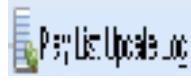
10.2.3 Choose  in the WEB page, then click .

10.2.4 Set the “Download Setting” to be “Open” and then input the set server address (ftp://169.254.10.49), the route of the folder (/DOWN), user name (5800), password (5800), screen name 123. Choose corresponding download time and click “Write in” (Fig. 6.2.4.1).

Auto Download:	Enable
FTP Server Address:	ftp://169.254.10.49
FTP Route:	/DOWN
UserName:	5800
Password:	5800
Screen Name:	123
Download Time1:	08:30
Download Time2:	11:30
Download Time3:	15:00
Download Time4:	17:00

Fig. 6.2.4.1

10.3 Confirm Download

10.3.1 Choose  in the WEB page. Check the motherboard record and find if there any record of playing download file. Then check the server download record “*.log”, and see if it is accord with the content of the list. (Fig. 6.3.1.1).



TIME	TYPE	MESSAGE
2011-04-06 07:52:23	SIML	Start Download File://169.254.10.49/DOWN/Fl1;0111/autodown.lws
2011-04-06 07:52:23	CACHE	Skip Download File://169.254.10.49/DOWN/Fl1;0111/autodown.lws
>2011-04-06 07:52:23	SIML	Start Download File://169.254.10.49/DOWN/Fl1;0111/autodown.lws
>2011-04-06 07:52:23	SIML	Start Download File://169.254.10.49/DOWN/Fl1;0111/autodown.lws
2011-04-06 07:52:23	SIML	Start Download File://169.254.10.49/DOWN/Fl1;0111/autodown.lws
2011-04-06 07:52:23	SIML	Start Download File://169.254.10.49/DOWN/Fl1;0111/autodown.lws

Fig. 6.3.1.1

11 Allocate the motherboard with WIFI function.

11.1 Connect USB wireless receptor (Fig. 12.1.1.1) and then connect the network with wireless router.



Fig. 12.1.1.1

11.2 To set the wireless router, set up wireless LAN. For example: to set the network name as QS without permissions password but with DHCP function. (Because the allocating method of different wireless routers are different, so please refer to router instructions.)

11.3 Choose “WIFI Setting” in the motherboard page. Set the motherboard WIFI function to be “Open”. Choose “QS” as the access point. Input the password for the access point if there is one, if not, keep it empty. Choose the working mode as “DHCP” (Fig. 12.1.3.1).



Fig.12.1.3.1

Note: choose “Manual assign IP address” if you need to set manual IP address assignment.

Configuration

Enable:	Enable
Network Name:	QS
Network Password:	
Mode:	Manual Operation
IP Address:	169.254.10.49
Net Mask:	255.255.0.0
Gate Way:	169.254.11.171

Fig. 12.1.3.2

11.4 click “ Send”, and save.

12 Application parameter configuration

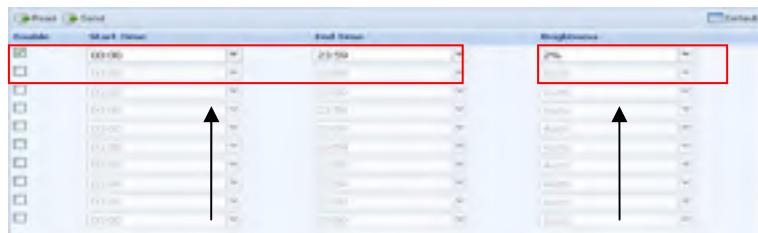
The main function of system configuration is to set the settings for specific system parameters, and to check the original parameters on main board.

12.1 set Brightness Setting (AD setting)

12.1.1 In the web page, select "Brightness Setting" 

12.1.2 Select time period and set the brightness value of the time period (Figure

9.1.2.1), the specific reference to "light Sensor Setting" (fig 9.1.2.2).



Set time period

Brightness value of
the time period

Fig 9.1.2.1

AD Start	AD End	Bright Precent
0	32	10%
32	53	20%
53	93	30%
93	117	50%
117	160	60%
160	176	70%
176	199	90%
199	255	100%

fig 9.1.2.2

12.2 Set the switch machine scheduling

12.2.1 Login motherboard, select "Power schedule",

12.2.2 Check the time of the project box, enter the switch time (Fig. 10.1.2.1), Note:
The start time must be less than the off time



The switch time

Fig 10.1.2.1

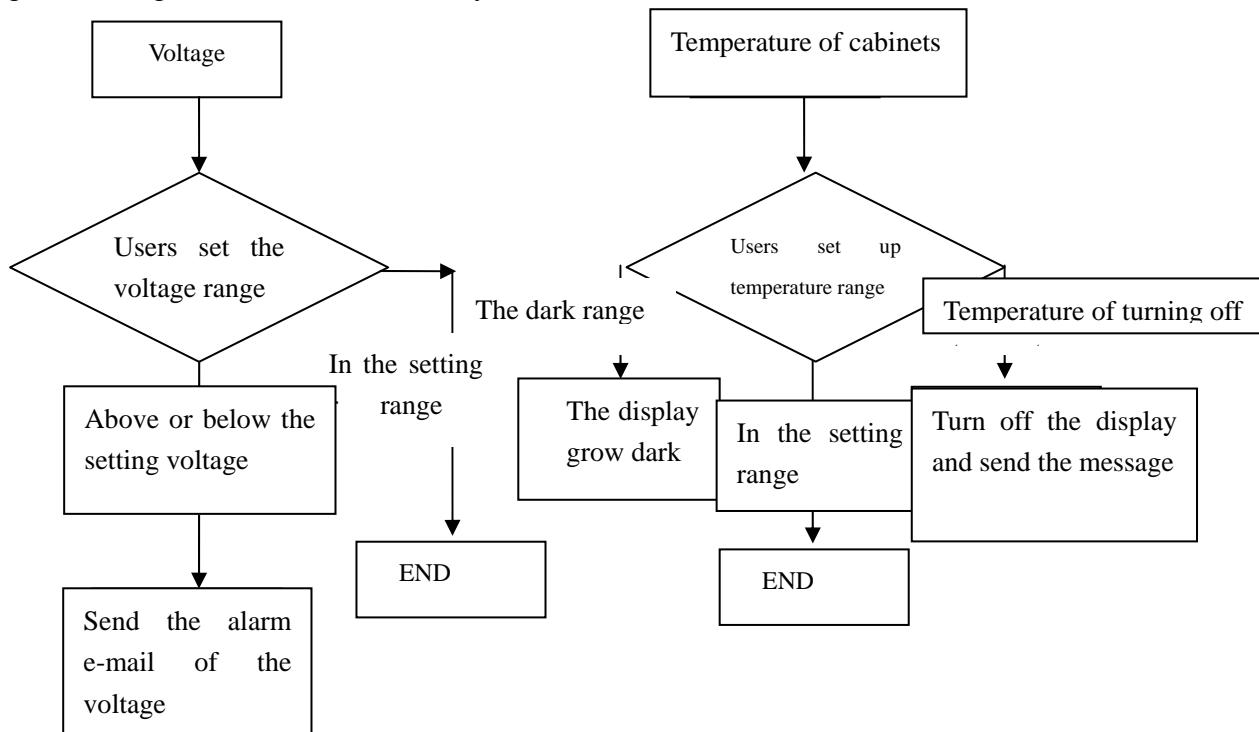
12.2.3 Click "  Send " to Save

12.3 sms and email alarm functions

This function can effectively prevent the lack of management time, no exception processing screen appears the phenomenon, the user can promptly notify the maintenance personnel of the functional repair.

12.3.1 Principle

Properly connected to the motherboard in the box and under the premise that once a voltage instability box, the temperature is too high, the board will automatically separate the different case. That is, if the voltage is set to 5V, set within 24 hours after the event of a higher or lower than 5V situation, the message board will issue a warning message; if the event of a heating cabinet, the board will first determine the temperature in the range (Users pre-set), if in the dark range, to reduce the brightness range in the off automatically shut down.



12.3.2 Set Protection

12.3.2.1 Connected to the motherboard using the WEB, select "Protection Settings"



12.3.2.2 Input parameters (Fig. 11.2.2.1), complete the settings and click " Send" to save.

Note: The maximum voltage must be greater than the minimum voltage, maximum current must be greater than the minimum current.

图 11.2.2.1

12.3.3 sms and email settings

12.3.3.1 Installed on the motherboard and the receiving device external GSM SIM card

12.3.3.2, Click on the "Protection Settings" , set the receiver's phone number and email address (Fig. 11.3.2.1), click on the " Send" to save.

Others	
Auto Brightness Max(%):	100
Auto Brightness Min(%):	10
Report Phone Number:	+8613827796591
Report E-Mail:	506214347@qq.com

Fig 11.3.2.1

12.3.3.3 Use the numbers to receive information sent "<SIGNSTATUS>" to the GSM SIM card within the receiving device number on

Note:

SMS: SMS alarm function to use when the SIM card, the balance must be sufficient recognition, GSM module can be opened up after the installation of telephone numbers, telephone numbers before you add the country code.

EMAIL: Use e-mail alert feature, you must make sure the motherboard has access to the network; e-mail format should be: "Account Name "+@+ server name," once every 24 hours only to send the message.

13 Log message

13.1 View the currently playing content (live time)

13.1.1 Log on to the motherboard using the WEB, click on "System Monitor"

 , you can see the current display screen (Figure 13.1.1.1, refresh every 3 seconds.)

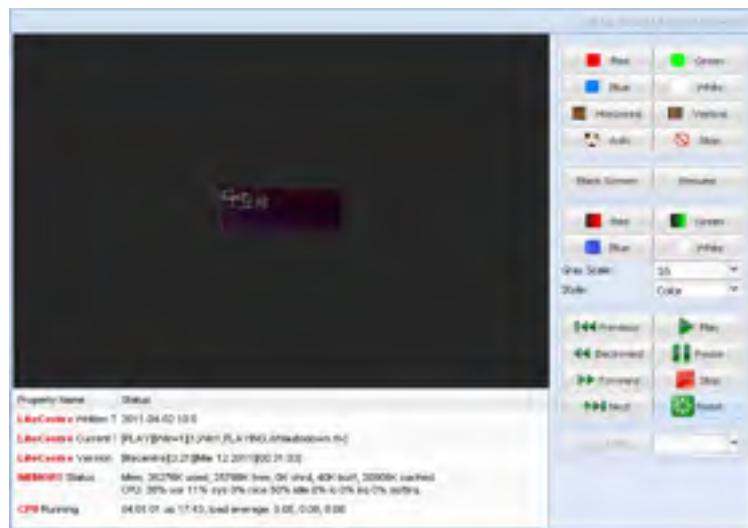


Fig 13.1.1.1

Note: The sub-window playback, there must be a window playing a movie file (*.FLV), or sub-windows cannot play.

13.2 View Play log and export logs

13.2.1 In the WEB page, select the "Play log"  , the system will automatically default the full broadcast day, the log display (picture 14.1.1.1),

Begin Date:	2011-01-20	Company Name:	
End Date:	2011-01-20	File Name:	
Result:  			
Window	Company Name	File Name	Play Time
1_1	ChangZone	subdown.jpg	2011-01-20 14:00
2_1	ChangZone	subdown.flv	2011-01-20 14:00
3_1	ChangZone	subdown.jpg	2011-01-20 14:00
4_2	123	for116.jpg	2011-01-20 14:00
5_2	123	for116.png	2011-01-20 14:00

Fig 14.1.1.1

2. Play the previous query log, the first click , set the corresponding time (Fig. 14.1.2.1), click on "read back"

14.1.2.1), click on "read back" 



Fig 14.1.2.1

3. Export the log, first click , set the corresponding time (Fig. 14.1.3.1), click on

"read back"  , click "Export"  (Fig. 14.1.3.2).



WinID	Company Name	File Name	Play Time	Play Count	Total Times(\$)
1	Group1	temp.Nmg	2011-1-5 08:00	34	83
1	NoGroup	hello world.Nmg	2011-1-5 08:00	680	1648
1	NoGroup	hello world.Nmg	2011-1-5 09:00	1206	2925
1	Group1	temp.Nmg	2011-1-5 10:00	48	122

Fig 14.1.3.1

fig 14.1.3.2

Note: Cannot export, in the menu bar select "Tools"  > internet options  > security  > interne  t> Custom Level,

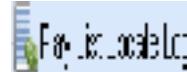


" will "is marked as safe for scripting activex controls Initialize and script," selected " start "(Figure 14.1.3.3), the last point of" OK ", restart IE and then for export.



figure 14.1.3.3

13.3 Check list update log



13.3.1 Click “Play List Update Log”  in the WEB, and the system defaults to demonstrate the day’s blogs (Chart 15.1.1.1).

Begin Date:	2011-01-20	<input style="width: 100px; height: 25px; border: 1px solid #ccc;" type="button" value="..."/>	User Name:	<input style="width: 150px; height: 25px; border: 1px solid #ccc;" type="text"/>
End Date:	2011-01-20	<input style="width: 100px; height: 25px; border: 1px solid #ccc;" type="button" value="..."/>	File Name:	<input style="width: 150px; height: 25px; border: 1px solid #ccc;" type="text"/>
 Reset Delete				
Date	File Name		Operation	
1 2011-01-20 14:02	autoDown.mng		AutoDownload Update	
2 2011-01-20 14:02	autoDown.tfr		AutoDownload Update	
3 2011-01-20 14:02	autoDown.mng		AutoDownload Update	
4 2011-01-20 14:02	tar100.mng		AutoDownload Update	
5 2011-01-20 14:02	tar100eng		AutoDownload Update	

Chart 15.1.1.1



13.3.2 When checking the previous logs, click  first, and then set up the corresponding time.

13.3.3 When searching for specific record, input username and filename (Note: the inputted username and filename must be complete names), and then



13.4 Check temperature log



13.4.1 Click “Temperature Log”  in the WEB, and the system defaults to demonstrate the day’s temperature logs (Chart 16.1.1.1).

Begin Date:		2011-01-20	<input checked="" type="checkbox"/> Outside Temperature						
End Date:		2011-03-20	<input checked="" type="checkbox"/> Inside Temperature						
		<input checked="" type="checkbox"/> Today		<input checked="" type="checkbox"/> Yesterday		<input checked="" type="checkbox"/> Tomorrow			
		High Temp.	Low Temp.	High Temp.	Average	Lowest	High Temp.	Average	Lowest
1	2011-01-20	2011-01-20	20	19	19	20	29	29	29
2	2011-01-20	2011-01-20	20	19	19	20	30	30	30
3	2011-01-20	2011-01-20	19	18	18	20	29	29	29
4	2011-01-20	2011-01-20	19	18	18	20	29	29	29
5	2011-01-20	2011-01-20	19	18	18	20	29	29	29
6	2011-01-20	2011-01-20	19	18	18	20	29	29	29
7	2011-01-20	2011-01-20	19	18	18	20	29	29	29
8	2011-01-20	2011-01-20	19	18	18	20	29	29	29
9	2011-01-20	2011-01-20	19	18	18	20	29	29	29
10	2011-01-20	2011-01-20	19	18	18	20	29	29	29

Chart 16.1.1.1



13.4.2 When checking the previous logs, click  first, and then set up the corresponding time.

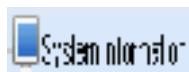
13.4.3 When searching for specific record, input exterior temperature and interior temperature (Note: the inputted temperature value must be complete temperature



14 System diagnosis

Information View Function can help users understand system version and hardware information more easily, and facilitate the communication between user and engineer.

14.1 Check application program version information



14.1.1 Click “System Information”  in the WEB, and you can find all driver software information in the system (Chart 17.1.1.1).

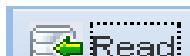
Chart 17.1.1.1

14.2 Check tile information

14.2.1 Click “Tile Information” in the WEB, and the system automatically reads all tile information (Chart 18.1.1.1).

Address:	<input type="text"/>	X Position:	<input type="text"/>
CPU Version:	<input type="text"/>	Y Position:	<input type="text"/>
Read Write Information			
Address	X Position	Y Position	Width
1	8	5	9
Brightness	Temperature	CPU Version	FPGA Version
16	600	48	60
Frame Freq	Fan	Gamma	Indic.
OFF	1		

Chart 18.1.1.1

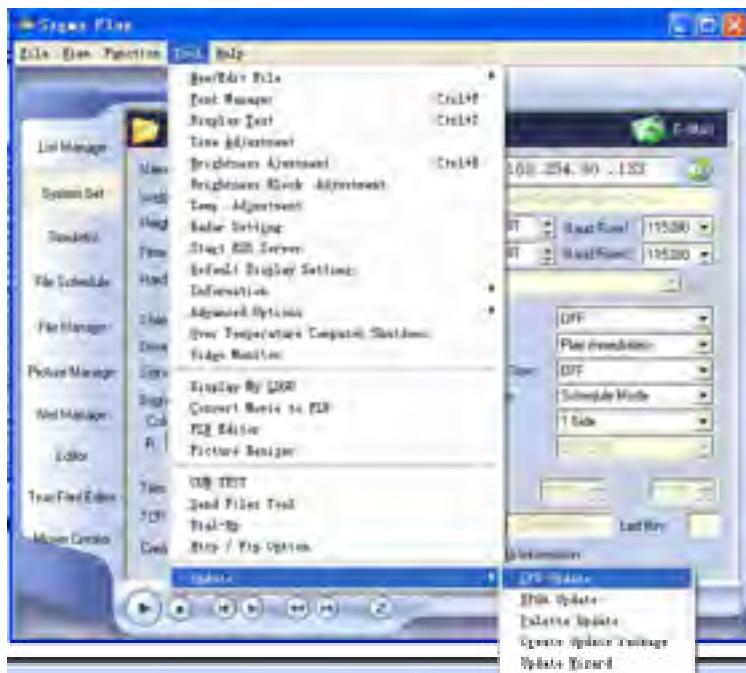
14.2.2 Clicking “Real-Time Information”  can read the real time information of the cabinet; clicking “Read”  can read back information after the cabinet moves for a while.

14.2.3 When checking cabinet, input complete information in address, CPU version number, X coordinate or Y coordinate, and then click “Read” .

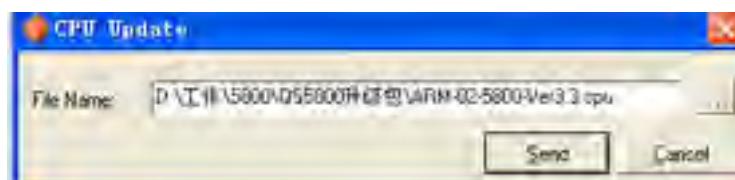
14.3 Check pixel information

14.3.1 Click “Pixel Inforamtion” in the WEB, and the system automatically reads all pixel information (fig 19.1.1.1).

Start Date:	2011-01-01	X Position:	
End Date:	2011-01-03	Y Position:	
Period  			
Date	X Position	Y Position	Status
1 2011-01-01 00:00:00	0	0	Red Signal
2 2011-01-01 00:00:24	0	0	Green Signal
3 2011-01-01 00:00:48	0	0	Blue Signal
4 2011-01-01 00:01:32	0	0	Red Signal
5 2011-01-01 00:01:56	0	0	Green Signal
6 2011-01-01 00:02:20	0	0	Blue Signal
7 2011-01-01 00:02:44	0	0	Red Signal
8 2011-01-01 00:03:18	0	0	Green Signal
9 2011-01-01 00:03:42	0	0	Blue Signal
10 2011-01-01 00:04:16	0	0	Red Signal
11 2011-01-01 00:04:40	0	0	Green Signal
12 2011-01-01 00:05:14	0	0	Blue Signal
13 2011-01-01 00:05:38	0	0	Red Signal
14 2011-01-01 00:06:02	0	0	Green Signal
15 2011-01-01 00:06:26	0	0	Blue Signal
16 2011-01-01 00:06:50	0	0	Red Signal
17 2011-01-01 00:07:14	0	0	Green Signal
18 2011-01-01 00:07:38	0	0	Blue Signal
19 2011-01-01 00:08:02	0	0	Red Signal
20 2011-01-01 00:08:26	0	0	Green Signal
21 2011-01-01 00:08:50	0	0	Blue Signal
22 2011-01-01 00:09:14	0	0	Red Signal
23 2011-01-01 00:09:38	0	0	Green Signal
24 2011-01-01 00:10:02	0	0	Blue Signal
25 2011-01-01 00:10:26	0	0	Red Signal
26 2011-01-01 00:10:50	0	0	Green Signal
27 2011-01-01 00:11:14	0	0	Blue Signal
28 2011-01-01 00:11:38	0	0	Red Signal
29 2011-01-01 00:11:52	0	0	Green Signal
30 2011-01-01 00:12:16	0	0	Blue Signal
31 2011-01-01 00:12:40	0	0	Red Signal
32 2011-01-01 00:12:54	0	0	Green Signal
33 2011-01-01 00:13:18	0	0	Blue Signal
34 2011-01-01 00:13:42	0	0	Red Signal
35 2011-01-01 00:13:56	0	0	Green Signal
36 2011-01-01 00:14:20	0	0	Blue Signal
37 2011-01-01 00:14:44	0	0	Red Signal
38 2011-01-01 00:14:58	0	0	Green Signal
39 2011-01-01 00:15:22	0	0	Blue Signal
40 2011-01-01 00:15:46	0	0	Red Signal
41 2011-01-01 00:15:50	0	0	Green Signal
42 2011-01-01 00:15:54	0	0	Blue Signal
43 2011-01-01 00:16:18	0	0	Red Signal
44 2011-01-01 00:16:32	0	0	Green Signal
45 2011-01-01 00:16:46	0	0	Blue Signal
46 2011-01-01 00:16:50	0	0	Red Signal
47 2011-01-01 00:16:54	0	0	Green Signal
48 2011-01-01 00:17:18	0	0	Blue Signal
49 2011-01-01 00:17:32	0	0	Red Signal
50 2011-01-01 00:17:46	0	0	Green Signal
51 2011-01-01 00:17:50	0	0	Blue Signal
52 2011-01-01 00:17:54	0	0	Red Signal
53 2011-01-01 00:18:18	0	0	Green Signal
54 2011-01-01 00:18:32	0	0	Blue Signal
55 2011-01-01 00:18:46	0	0	Red Signal
56 2011-01-01 00:18:50	0	0	Green Signal
57 2011-01-01 00:18:54	0	0	Blue Signal
58 2011-01-01 00:19:18	0	0	Red Signal
59 2011-01-01 00:19:32	0	0	Green Signal
60 2011-01-01 00:19:46	0	0	Blue Signal
61 2011-01-01 00:19:50	0	0	Red Signal
62 2011-01-01 00:19:54	0	0	Green Signal
63 2011-01-01 00:20:18	0	0	Blue Signal
64 2011-01-01 00:20:32	0	0	Red Signal
65 2011-01-01 00:20:46	0	0	Green Signal
66 2011-01-01 00:20:50	0	0	Blue Signal
67 2011-01-01 00:20:54	0	0	Red Signal
68 2011-01-01 00:21:18	0	0	Green Signal
69 2011-01-01 00:21:32	0	0	Blue Signal
70 2011-01-01 00:21:46	0	0	Red Signal
71 2011-01-01 00:21:50	0	0	Green Signal
72 2011-01-01 00:21:54	0	0	Blue Signal
73 2011-01-01 00:22:18	0	0	Red Signal
74 2011-01-01 00:22:32	0	0	Green Signal
75 2011-01-01 00:22:46	0	0	Blue Signal
76 2011-01-01 00:22:50	0	0	Red Signal
77 2011-01-01 00:22:54	0	0	Green Signal
78 2011-01-01 00:23:18	0	0	Blue Signal
79 2011-01-01 00:23:32	0	0	Red Signal
80 2011-01-01 00:23:46	0	0	Green Signal
81 2011-01-01 00:23:50	0	0	Blue Signal
82 2011-01-01 00:23:54	0	0	Red Signal
83 2011-01-01 00:24:18	0	0	Green Signal
84 2011-01-01 00:24:32	0	0	Blue Signal
85 2011-01-01 00:24:46	0	0	Red Signal
86 2011-01-01 00:24:50	0	0	Green Signal
87 2011-01-01 00:24:54	0	0	Blue Signal
88 2011-01-01 00:25:18	0	0	Red Signal
89 2011-01-01 00:25:32	0	0	Green Signal
90 2011-01-01 00:25:46	0	0	Blue Signal
91 2011-01-01 00:25:50	0	0	Red Signal
92 2011-01-01 00:25:54	0	0	Green Signal
93 2011-01-01 00:26:18	0	0	Blue Signal
94 2011-01-01 00:26:32	0	0	Red Signal
95 2011-01-01 00:26:46	0	0	Green Signal
96 2011-01-01 00:26:50	0	0	Blue Signal
97 2011-01-01 00:26:54	0	0	Red Signal
98 2011-01-01 00:27:18	0	0	Green Signal
99 2011-01-01 00:27:32	0	0	Blue Signal
100 2011-01-01 00:27:46	0	0	Red Signal
101 2011-01-01 00:27:50	0	0	Green Signal
102 2011-01-01 00:27:54	0	0	Blue Signal
103 2011-01-01 00:28:18	0	0	Red Signal
104 2011-01-01 00:28:32	0	0	Green Signal
105 2011-01-01 00:28:46	0	0	Blue Signal
106 2011-01-01 00:28:50	0	0	Red Signal
107 2011-01-01 00:28:54	0	0	Green Signal
108 2011-01-01 00:29:18	0	0	Blue Signal
109 2011-01-01 00:29:32	0	0	Red Signal
110 2011-01-01 00:29:46	0	0	Green Signal
111 2011-01-01 00:29:50	0	0	Blue Signal
112 2011-01-01 00:29:54	0	0	Red Signal
113 2011-01-01 00:30:18	0	0	Green Signal
114 2011-01-01 00:30:32	0	0	Blue Signal
115 2011-01-01 00:30:46	0	0	Red Signal
116 2011-01-01 00:30:50	0	0	Green Signal
117 2011-01-01 00:30:54	0	0	Blue Signal
118 2011-01-01 00:31:18	0	0	Red Signal
119 2011-01-01 00:31:32	0	0	Green Signal
120 2011-01-01 00:31:46	0	0	Blue Signal
121 2011-01-01 00:31:50	0	0	Red Signal
122 2011-01-01 00:31:54	0	0	Green Signal
123 2011-01-01 00:32:18	0	0	Blue Signal
124 2011-01-01 00:32:32	0	0	Red Signal
125 2011-01-01 00:32:46	0	0	Green Signal
126 2011-01-01 00:32:50	0	0	Blue Signal
127 2011-01-01 00:32:54	0	0	Red Signal
128 2011-01-01 00:33:18	0	0	Green Signal
129 2011-01-01 00:33:32	0	0	Blue Signal
130 2011-01-01 00:33:46	0	0	Red Signal
131 2011-01-01 00:33:50	0	0	Green Signal
132 2011-01-01 00:33:54	0	0	Blue Signal
133 2011-01-01 00:34:18	0	0	Red Signal
134 2011-01-01 00:34:32	0	0	Green Signal
135 2011-01-01 00:34:46	0	0	Blue Signal
136 2011-01-01 00:34:50	0	0	Red Signal
137 2011-01-01 00:34:54	0	0	Green Signal
138 2011-01-01 00:35:18	0	0	Blue Signal
139 2011-01-01 00:35:32	0	0	Red Signal
140 2011-01-01 00:35:46	0	0	Green Signal
141 2011-01-01 00:35:50	0	0	Blue Signal
142 2011-01-01 00:35:54	0	0	Red Signal
143 2011-01-01 00:36:18	0	0	Green Signal
144 2011-01-01 00:36:32	0	0	Blue Signal
145 2011-01-01 00:36:46	0	0	Red Signal
146 2011-01-01 00:36:50	0	0	Green Signal
147 2011-01-01 00:36:54	0	0	Blue Signal
148 2011-01-01 00:37:18	0	0	Red Signal
149 2011-01-01 00:37:32	0	0	Green Signal
150 2011-01-01 00:37:46	0	0	Blue Signal
151 2011-01-01 00:37:50	0	0	Red Signal
152 2011-01-01 00:37:54	0	0	Green Signal
153 2011-01-01 00:38:18	0	0	Blue Signal
154 2011-01-01 00:38:32	0	0	Red Signal
155 2011-01-01 00:38:46	0	0	Green Signal
156 2011-01-01 00:38:50	0	0	Blue Signal
157 2011-01-01 00:38:54	0	0	Red Signal
158 2011-01-01 00:39:18	0	0	Green Signal
159 2011-01-01 00:39:32	0	0	Blue Signal
160 2011-01-01 00:39:46	0	0	Red Signal
161 2011-01-01 00:39:50	0	0	Green Signal
162 2011-01-01 00:39:54	0	0	Blue Signal
163 2011-01-01 00:40:18	0	0	Red Signal
164 2011-01-01 00:40:32	0	0	Green Signal
165 2011-01-01 00:40:46	0	0	Blue Signal
166 2011-01-01 00:40:50	0	0	Red Signal
167 2011-01-01 00:40:54	0	0	Green Signal
168 2011-01-01 00:41:18	0	0	Blue Signal
169 2011-01-01 00:41:32	0	0	Red Signal
170 2011-01-01 00:41:46	0	0	Green Signal
171 2011-01-01 00:41:50	0	0	Blue Signal
172 2011-01-01 00:41:54	0	0	Red Signal
173 2011-01-01 00:42:18	0	0	Green Signal
174 2011-01-01 00:42:32	0	0	Blue Signal
175 2011-01-01 00:42:46	0	0	Red Signal
176 2011-01-01 00:42:50	0	0	Green Signal
177 2011-01-01 00:42:54	0	0	Blue Signal
178 2011-01-01 00:43:18	0	0	Red Signal
179 2011-01-01 00:43:32	0	0	Green Signal
180 2011-01-01 00:43:46	0	0	Blue Signal
181 2011-01-01 00:43:50	0	0	Red Signal
182 2011-01-01 00:43:54	0	0	Green Signal
183 2011-01-01 00:44:18	0	0	Blue Signal
184 2011-01-01 00:44:32	0	0	Red Signal
185 2011-01-01 00:44:46	0	0	Green Signal
186 2011-01-01 00:44:50	0	0	Blue Signal
187 2011-01-01 00:44:54	0	0	Red Signal
188 2011-01-01 00:45:18	0	0	Green Signal
189 2011-01-01 00:45:32	0	0	Blue Signal
190 2011-01-01 00:45:46	0	0	Red Signal
191 2011-01-01 00:45:50	0	0	Green Signal
192 2011-01-01 00:45:54	0	0	Blue Signal
193 2011-01-01 00:46:18	0	0	Red Signal
194 2011-01-01 00:46:32	0	0	Green Signal
195 2011-01-01 00:46:46	0	0	Blue Signal
196 2011-01-01 00:46:50	0	0	Red Signal
197 2011-01-01 00:46:54	0	0	Green Signal
198 2011-01-01 00:47:18	0	0	Blue Signal
199 2011-01-01 00:47:32	0	0	Red Signal
200 2011-01-01 00:47:46	0	0	Green Signal
201 2011-01-01 00:47:50	0	0	Blue Signal
202 2011-01-01 00:47:54	0	0	Red Signal
203 2011-01-01 00:48:18	0	0	Green Signal
204 2011-01-01 00:48:32			



15.1.2 Download update file (*.cpu).



15.1.3 Wait for update complete.



15.1.4 After the box appears, click OK and reboot. The update is complete.



15.2 Update package update

For older version of update package (Ver4.0 or below)

15.2.1 Extract the update package and find "update.txt" (fig 16.2.1)



update fig 16.2.1

15.2.2 The IP address should be modified to that of update main board (fig 16.2.2).

open 169.254.15.299 fig 16.2.2

15.2.3 Save, and then click “update.bat” (Chart 16.2.3) to update automatically.



fig16.2.3

15.2.4 After the update is complete, use Display Test to reboot (fig 16.2.4).

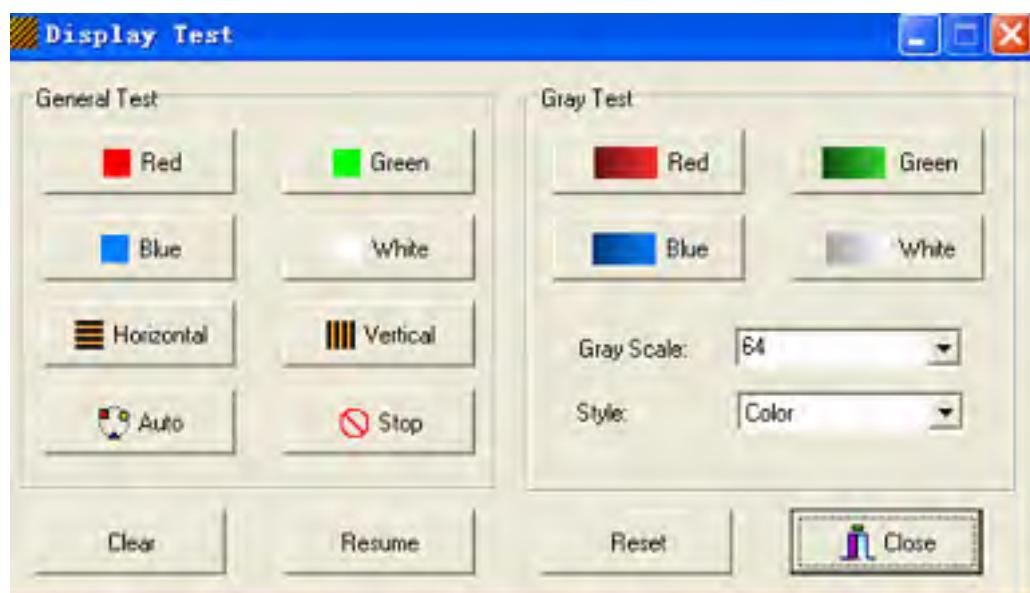


Fig 16.2.4

For new version of update package (Ver4.1 or above)

15.2.5 Extract the update package and double click “upLedNetUpdate.exe” (fig 16.2.5)

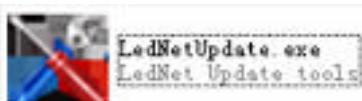


fig 16.2.5

15.2.6 After the interface (Chart 16.2.6) appears, input the IP address of main board.

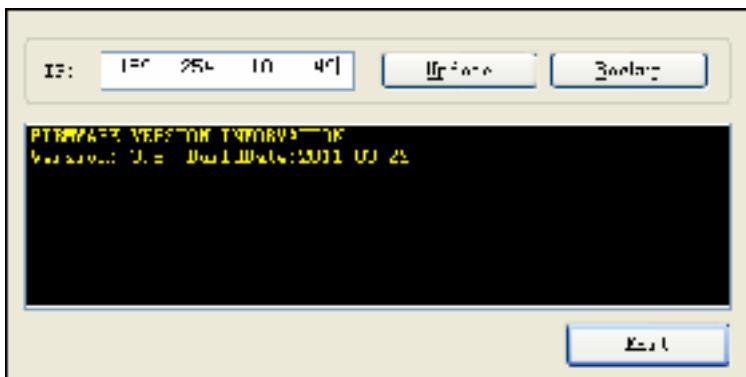


Fig 16.2.6

15.2.7 Click  . When Chart 16.2.7 appears, the update is complete.

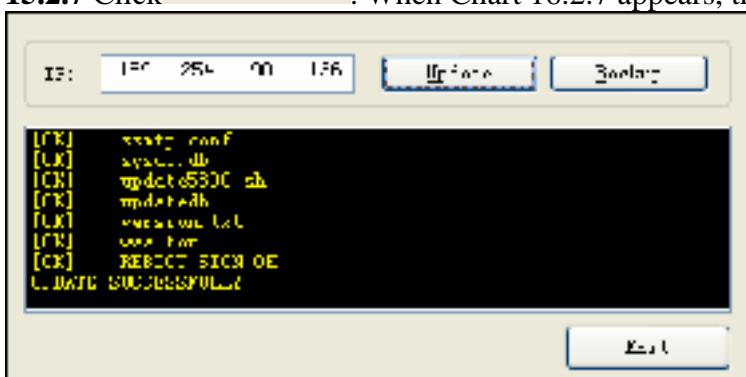


Fig 16.2.7

15.3 USB drive update

15.3.1 Format USB drive as FAT or FAT32.

15.3.2 Extract the particular update package into the root directory (Chart 20.3.2.1).

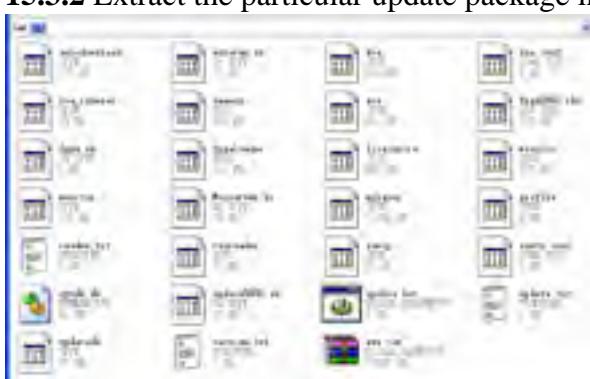


Fig 20.3.2.1

15.3.3 Insert USB drive into the main board, and then wait for 3 minutes.

15.3.4 Restart after finishing the above steps, and verify the system version information.

Before update

After update



16. Advanced application

QS5800 can support multi-windows playing, playing control, subsidiary playing and multistage user management. With these functions, users can control the playing contents and the operations for different users' permissions to log-in.

16.1 Sub-windows playing

16.1.1 Log in with the WEB forms, you can choose “windows setting”  , click on “create”  , fill the specifications in the popup dialog.(see figure 7.1.1.1)

The diagram illustrates the mapping of sub-windows parameters to the fields in the 'Add/Modify Play Win' dialog. Arrows point from each parameter label to its corresponding field in the dialog:

- Win Name → Win Name
- Window ID → WinID
- Coordinate X → X
- Coordinate Y → Y
- Coordinate Z → Z
- Width → Width
- Height → Height
- Transparency → Transparency
- PlayMode → PlayMode
- WinMode → WinMode

Parameter	Field
Win Name	Win Name
Window ID	WinID
Coordinate X	X
Coordinate Y	Y
Coordinate Z	Z
Width	Width
Height	Height
Transparency	Transparency
PlayMode	PlayMode
WinMode	WinMode

Notice:

Coordinate X&Y: Designating the position of the window in the screen, if it's sub-windows playing, please pay attention to the value of coordinate X, Y of the

window, in case of the situation of overlapping or wrong position (the QS5800 can support two windows at one time for the most at present, and one of them must play *.FLV)

Coordinate Z: it must be set as 1.

Playing Mode(see figure 7.1.1.2)

First one: every window can only play one document of one company

Second one: every window can play several documents of one company.

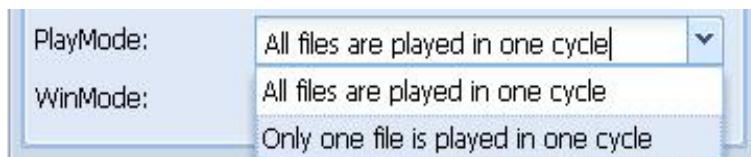
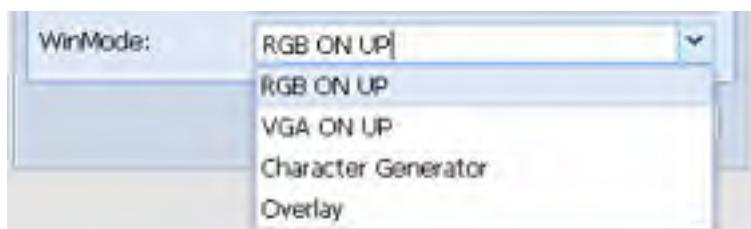


Figure 7.1.1.2

Window Mode: aiming at the output mode of different displays. (figure 7.1.1.3)



16.1.2 Click “OK” to create a new window. (图 figure 7.1.2.1)。



Figure 7.1.2.1

16.1.3 When adding document to the lists, you can choose different “Windows ID to realize sub-windows playing”

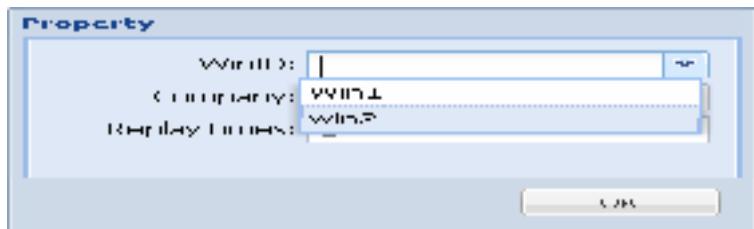


Figure 7.1.3.1

16.2 Subsidiary playing

16.2.1 Log in with the WEB form, choose “company manager” , click “create” , fill in the relative information (you can add 1000 company IDs for the most) in the popup dialog (see figure 7.2.1.1).



Figure 7.2.1.1

16.2.2 Click “OK” to create a new company ID (figure 7.2.2.1).

Company ID	Company Name	Description
1	GOTBCH	Changzhou Tech.
0	123	123

Figure 7.2.2.1

16.2.3 When adding documents to the lists, you can choose different “company”(figure 7.2.3.1) to realize subsidiary playing.



Figure 7.2.3.1

16.3 Company management

16.3.1 Choose the company which needs to revise or delete (figure 7.3.1.1);

Company ID	Company Name	Description
1	GOTBCH	Changzhou Tech.
0	123	123

Figure 7.3.1.1

16.3.2 Click “create”  , revise the information in the popup dialog(figure 7.3.2.1);

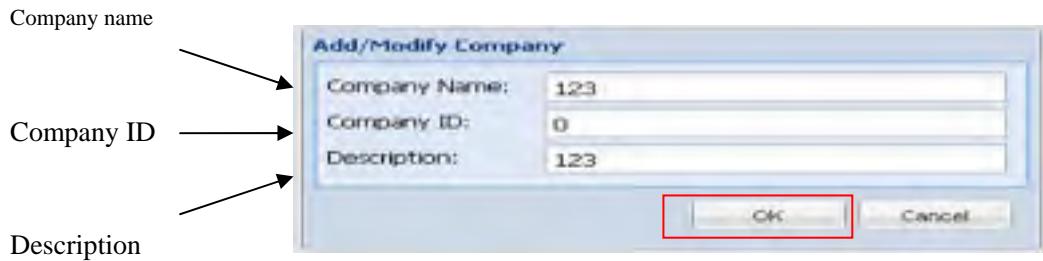


Figure 7.3.2.1

16.3.3 Click “OK” to finish the revise (figure 7.3.3.1).

Add/Modify Company		
Company ID	Company Name	Description
1	QSTECH	Chainzone tech.
0	123	123

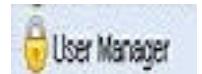
Figure 7.3.3.1

16.3.4 If you need to delete the company, you can choose it, and click “delete”  ,and the d deletion is done (图 7.3.4.1)。

Add/Modify Company		
Company ID	Company Name	Description
1	QSTECH	Chainzone tech.

Figure 7.3.4.1

16.4 Web user manager

16.4.1 Log in with the WEB page, choose “user manager”  , click

“create”  , input the data in the popup dialog(figure 7.4.1.1) ;

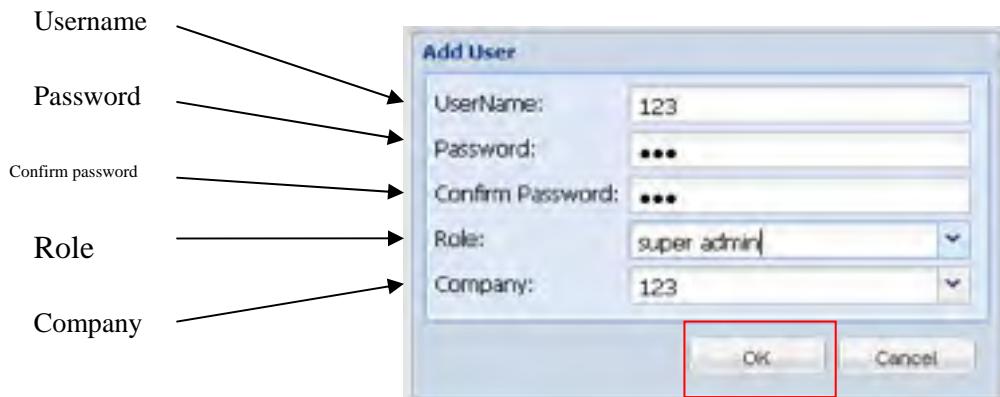


Figure 7.4.1.1

16.4.2 Click “confirm” to create a new user.

User List			
Username	Company	Role	Last Logged In
admin	0	super admin	2013-12-18 00:00
123	123	user admin	2013-09-09 00:00

Notice:

- A Once being confirmed, the user name cannot revise;
- B The limitation of the user role (figure 7.4.2.1):

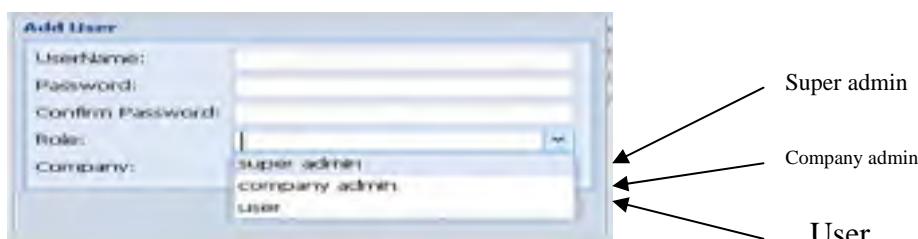


Figure 7.4.2.1

Super admin: can realize all the operations.

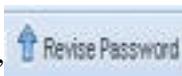
Company admin: can realize the operations except checking the box information, pixel information and some other user's roles.

User: can not realize any operations except revise the playing images.

16.4.3 Choose the users which need to revise the password (figure 7.4.3.1) , click “revise password”;

User Management			
UserName	Company	Role	Last Logged Time
admin	0	super admin	2010-12-15 15:23
123	123	super admin	2010-12-15 14:30

Figure 7.4.3.1

16.4.4 Click “revise password”  , input the present password and the new one (figure 7.4.4.1)

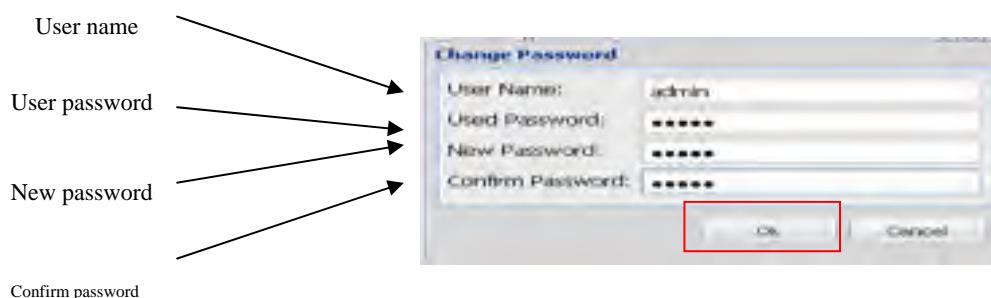


Figure 7.4.4.1

16.4.5 Click “confirm” to finish the revision (figure 7.4.5.1) .

User Management			
UserName	Company	Role	Last Logged Time
admin	0	super admin	2010-12-15 15:23
123	123	super admin	2010-12-15 14:30

Figure 7.4.5.1

17FAQ

17.1 web initial password

The web user's initial username and password for logging is admin(lowercase).**17.2**
solution for no playing content in the screen

17.2.1 In the web page, change the “display mode” and “play mode” in the “system setting” to “synchronous” and “play immediately” (figure 36.1.1.1).



Figure 6.1.1.1

17.2.2 Check the setting of the windows, if it's sub-windows playing, then one of the window must play animation (figure 36.1.2.1) , or it won't be able to play; it won't play if there are more than two windows.

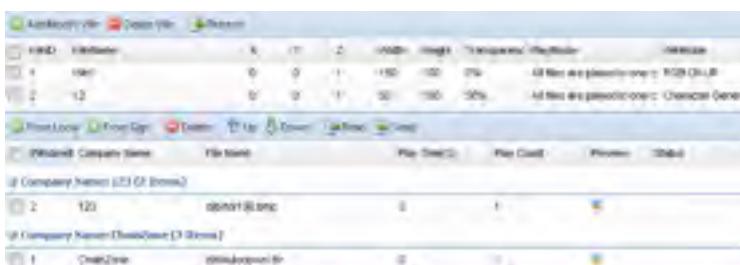


Figure 36.1.2.1

17.3 The reasons for connection failure to the Ethernet

17.3.1 Check if the net gapes are communicating between the host machine and the main board (both of the lights are on if the net gape are communicating);

17.3.2 Check if the netting twine is broken;

17.3.3 Check if the IP addresses of the host machine and the main board are in the same network segment(figure 37.1.3.1) , the default IP address of the main board is: 169.254.10.49 (when the computer is connected to the main board with netting twine) ;



Figure 37.1.3.1

17.3.4 Use 232/R485 data wire to connect to the main board, and use sigma to read the IP address of the main board, and then change the IP address of the network

card and the main board to the same network segment.

Appendix:

Download documents automatically

Dip switch list